

Cross-Sectional Reduction and Extension in the
Drawing of Bars, and Tubes. UNCL

GERMAN, per, Metallwirtschaft, Vol XXII, No 7/8,
19 Feb 1943.

British Iron and Steel Ind
(No number given)

Sci - Min/Met
Sep 59

98,148

Screws - Nuts - Screw Joints, by G. Gimbel,
O. Furst. FOR GOVERNMENT USE ONLY
GERMAN, per, Metallwirtschaft, Vol XXII, 1943,
No 9, 10, pp 135-140. 9696439
DDC RSIC-351

Sci - Eng
Apr 65

278,254

Suggestions on Zinc Alloy Die Castings, by J.
Gerber, 9 pp.

GERMAN
~~German~~, per, Metallwirtschaft, Vol XXII, May 20,
1943, pp 288-291.

S.L.A. Tr 60/1956

Scientific - Minerals/Metals 33,993

Advance in Pressure Die Casting and in the Alloys
Used, by E. Lohrke, 8 pp.

GERMAN
German, per, Metallwirtschaft, Vol XXII, August
1943, pp 401-405.

S.L.A. Tr 94/1956

Scientific - Engineering : *MA/...T-15*

34, 219

Progress in the Field of Chromium Plating, Especially
Plating to Size and the Related Problem of Bath Compo-
sition, control, and Maintenance, by R. Bilfinger.

GERMAN, per, Metallwirtschaft, Vol XXII, No 33-35,
1943, pp 466-472.

Bratcher Tr No 1704

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Scientific - Min/Metals

\$7.20

On the Recrystallization of Plant-Made and Fabricated Aluminum, by K. Eaiser, 6 pp.

GERMAN, per, Metallwirtschaft, Vol XXII, 1943, pp 503-507.

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S.L.A. No 222/1956

Scientific - Minerals/metals

On the Volumetric States of Alloys in the Hetero-
geneous Liquid-Solid Range -III, by F. Samerwald, 30 pp

GERMAN, per, Metallwirtschaft, Vol XXII, 1943,
pp 543-545.

SLA Tr 57-705

Sci - Metals/Minerals
p Sep 57

54,009

Interference Phenomena of Spot Scattering and
Angular Line Displacement Appearing in X-ray inter-
ference Patterns, by F. Lihl, 4 pp.

GERMAN, per, Metallwirtschaft, Vol XXIII, No 31-~~2~~³⁴,
Aug 1944, p 20.

S.L.A. Tr No 364/1955

Sci - Physics
Jan 1957 CTS/dex

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On the Solubility of Iron and Manganese in
Magnesium and in Magnesium-Aluminium Alloys,
by A. Beerwald.

GERMAN, per, Metallwirtsch, Vol XXIII, 1944,
pp 44-47, 404-407.

TPA3/TIB
T 4412

Sci - Minerals/Metals
CTS 75/Dec 55

29,327

Investigation of Oils, Fats, and Lubricants
by Means of X-Rays, by J. J. Trillat.
GERMAN, per, Metallwirtschaft Metallwissen-
schaft, Metalltechnik, Vol 9, 1930, pp 1023-1028.
SIA TT-66-10062

Sci-Materials
Oct 66

313,225

Hüttig, G. F.
THE THEORETICAL BASES OF FRITTING PROC-
ESSES IN POWDERS. [Feb 48] 14p. 33 refs.
Order from SLA \$1.80, pb \$1.80 60-18834
Trans. of Metallwirtschaft [Metallwissenschaft,
Metalltechnik] (Germany) 1944, v. 23, Oct, p. 367-372

142,787

(Unannounced)

60-18834

1. Powders--Sintering
2. Powder metallurgy
3. Single crystals (Metallurgy)--
Surfaces
4. Title: Fritting
1. Hüttig, G. F.

Office of Technical Services

Extrusion Pressing in Powder Metallurgy, by R. Klotz
W. Lotay

OTMAN, R.E. Metallwirtschaft, Vol XXIII, No 40/43,
1944, pp 379-383.

A.E.R.E. Harwell
11/3/5/300 OP/534

Scientific - Minerals/Metals
CFC/BOX

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Solubility of Iron and Manganese in Magnesium
and Magnesium-Aluminum Alloys, by A. Beerwald.
GERMAN, per, Metallwirtschaft, Vol 23, 1944,
pp 404-407. P911083768-V
AEC UCRL-Tr-10158

Sci/Fat
Apr 68

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Deposition of Silver From Solutions of Simple
Silver Salts, by H. Hailing

GERMAN, per, Metallwirtschaft, Vol 8, No 11/12,
1954, pp 438-448

Brutcher No 3560
\$13.75

Scientific - Min/Metals, Chemistry
Feb 56 CTS/dex

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Kaiser, Heinrich.
QUANTITATIVE SPECTRAL ANALYSIS, ESPECIALLY
OF RARE METALS. (1964) 10p. (15 figs. omitted)
1 ref.

Order from SLA \$1.60

60-18955

Trans. of Metallwirtschaft [Metallwissenschaft,
Metalltechnik] (Germany) 1937, v. 16, 22 Oct.,
p. 1095-1102.

DESCRIPTORS: Spectrographic analysis, Metals.

(Unannounced)

60-18955

H. Kaiser, P.

Office of Technical Services

Fast, J. D.
DUCTILE SHAPING OF ZIRCONIUM AND TITANIUM.
22 Aug 47 [11p] 17refs
Order from SLA \$1.60

TT-63-20970

Trans. of [Metallwirtschaft, Metallwissenschaft, Metall-
technik] (Germany) 1938, v. 17, p. 459-462.

DESCRIPTORS: *Titanium, *Zirconium, Ductility,
Material forming, Mechanical working, Gases,
Solubility,

(Metallurgy--Light Metals, TT, v. 11, no. 5)

TT-63-20970

I. Fast, J. D.

Office of Technical Services

TT-63-20973

Fast, J. D.
EXTRAORDINARILY GREAT SOLUBILITY OF NITRO-
GEN AND OXYGEN IN SOME METALS (STUDIED
WITH REFERENCE TO ZIRCONIUM AND TITANIUM).
27 Aug 47 [9p]
Order from SLA \$1.10

TT-63-20973

Trans. of [Metallwirtschaft, Metallwissenschaft, Metal-
litechnik] (Germany) 1938, v. 17, p. 641-644.

DESCRIPTORS: *Titanium, *Zirconium, Metals,
*Oxygen, *Nitrogen, Solubility, Crystal structure,
Density.

(Metallurgy, TT, v. 11, no. 5)

I. Fast, J. D.

Office of Technical Services

Cornelius, H., Bungardt, W., and Schleck, E.
SOME OBSERVATIONS ON THE SYSTEM MANGA-
NESE VANADIUM. [8 Apr 47] [9p]
Order from SLA \$1.10

TT-63-20974

Trans. of [Metallwirtschaft, Metallwissenschaft, Metall-
technik] (Germany) 1938, v. 17, p. 977-980.

DESCRIPTORS: *Manganese alloys, *Vanadium alloys,
Hardness, Melting, Crystal structure,

(Metallurgy--Nonferrous Metals, TT, v. 11, no. 5)

TT-63-20974

I. Cornelius, H.
II. Bungardt, W.
III. Schleck, E.

Office of Technical Services

Schulze, A.
METAL[LIC] MATERIALS FOR THERMO[CUPLE]S.
III. THERMOELECTRIC CHARACTERIZATION OF
METALLIC MATERIALS [Über Metallische Werkstoffe
für Thermoelemente. III. Abschnitt. Thermoelektri-
sche Charakterisierung der Metallischen Werkstoffe].
[1962] 21p. (figs. [refs.] omitted).
Order from SLA \$2.60

62-18308

Trans. of [Metallwirtschaft] Metallwissenschaft [Metall-
technik] (Germany) 1939, v. 18, no. 15, p. 315-320.

DESCRIPTORS: *Thermocouples, Thermoelectricity,
Temperature, Metals, Alloys, Electrodes, Materials.

(See also 62-18328)

(Physics--Thermodynamics, TT, v. 9, no. 7)

62-18308

I. Schulze, A.
II. Title: Thermoelectric ...

Office of Technical Services

Preparation of Metallic Films from the Gas Phase,
by R. Ritschal, 10 p.

GERMAN, per, Metallwirtschaft Metalltechnik,
1939, Vol XVIII, No 26, pp 563-567.

SLA 59-20809

Sci
Feb 60
Vol 2, No 12

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Schoeneck, H. and Verleger, H.
THE METHODS OF PREPARING METALLIC SINGLE
CRYSTALS. 3 Nov 50 [27p] 97refs
Order from SLA \$2.60

63-18219

Trans. of [Metallwirtschaft, Metallwissenschaft,
Metalltechnik] (Germany) 1939, v. 18, p. 576-584.

DESCRIPTORS: *Single crystals, *Metallic crystals,
Preparation, *Recrystallization, *Crystallization,
*Crystal growth, Crystal structure.

(Physics--Solid State, TT, v. 10, no. 12)

63-18219

I. Schoeneck, H.
II. Verleger, H.

Office of Technical Services

Bablik, H. and Götzl, P. THE LEAD-ZINC GALVANIZING PROCESS [AND] THE FORMATION OF HARD-ZINC IN THE LEAD- ZINC GALVANIZING PROCESS. Mar 48, 9p. (2 figs. omitted) 7 refs. Order from SLA m\$1.80, ph\$1.80 Trans. of [Metallwirtschaft, Metallwissenschaft, Metalltechnik] (Germany) 1942, v. 21, 27 Nov, p. 718- 720 and Stahl und Eisen (Germany) 1944, v. 64, no. 6, p. 120-122. 143,008	60-18815 1. Zinc coatings--Production 2. Title: Galvanizing I. Bablik, H. II. Götzl, P. III. Title: Formation... Office of Technical Services (Unannounced)
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Full translation.

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No 5-6, Mar 1951, pp 96-101.

S.L.A.

Scientific - Minerals/metals

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Aug 55

Recovery of Metallic Zinc From Dross and Skimmings,
by G. Lorber,

GERMAN, per, Metallwissenschaften und Technik,
Vol V, No 13/14, 1951, pp 291-292.

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Brutcher Tr 3413

Scientific - Min/Metals

Oct 55 CTS

The Effect of Hydrofluoric, Phosphoric, Chromic
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Wiederholt, 14 pp.

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S.L.A. Tr 1906

Sci - Minerals/Metals
May 57

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Residual Zinc Concentrations in the Vacuum
Distillation of Al-Zn Alloys, by H. Schunck,
3 pp.

GERMAN, par, Metallwissenschaft und Technik,
Nov 1953, p 875.

S.L.A. Tr 1173/1956

Sci - Min/Metals
Oct 56 CTS

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The Bauschinger Effect and Its Practical Applications,
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AEC-SC-Tr-524

Sci-Phys
Mar 64

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The Risk of Yield and Fracture Under Multiaxial
Stress, by K. Matthes.

GERMAN, per, Metallwiss u Technik, Vol X, No 17/18,
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DSIR/29272/CT

Sci - Physics
Oct 57

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The Nature of Discontinuous Precipitation, by
W. Gruhl, H. Kramer.

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Sci

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Sep 62

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Kieffer, R. and Benesovsky, F.
THE CURRENT STATE OF DEVELOPMENT IN
MANUFACTURE OF HIGH MELTING POINT METALS.
I [1961] 19p. (refs. 8 figs. omitted)
Order from SIA \$1.40

61-16171

Trans. of Metallwissenschaft und Technik [sic] 1959,
v. 13, no. 5, p. 379-385.

DESCRIPTORS. *Transition elements, *Molybdenum,
*Tungsten, Melting, Production, Sintering, *Powder
metallurgy, *Heat resistant alloys, Mechanical
properties

(Metallurgy--Structural, TT, v. 6, no. 3)

61-16171

I. Kieffer, R.
II. Benesovsky, F.

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Office of Technical Services

Application of Radioactive Isotopes in Metal-
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GERMAN, per, Metallurg Tech. No 13, 1959, pp 25-30.

*NBS TT 70-57392

Sci-Mat

Aug 70

Self-Diffusion in Tungsten, by W. Danneberg
5 pp.

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15, 1959, pp. 977-981.

*CFSTI TT 70-58092

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Transition From Plastic to Brittle Behavior in Thin
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GERMAN, per, Metallwissenschaft und Technik,
Vol XIV, No 1, 1960, pp 23-25. 9692933
DDC RSIC-188

SSC:KEMAM
July 64

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S-813/62

Flame Spraying of Metals, by H. Reininger. *4/1/62*

GERMAN, per, Metallwissenschaft und Technik, Vol XIV,
No 2, 1960, pp 115-125.

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Sci - Engr. - Min/Met

Nov 62

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Vol XIV, No 7, 1960, pp 655-659.

ATS-15M4G

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GERMAN, per, Metallwissenschaft und Tech,
Vol XIV, No 9, 1960, pp 891-896.

CSIRO/No 5932

Sci- M & M
Mar 63

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Diffusion of Metals in Aluminium, by
W. Roth, 5pp.

GERMAN, per, Metallwissenschaft und Technik
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*CPSTI TT 70-58094

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Sci/phys
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The Iron-Rich Side of the Iron-Zinc System,
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1961, 15, Aug., 761-763.
*DISI 4112

Sci/Met & Mat
Mar 65

Investigation of Autodiffusion in Tungsten, by
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GERMAN, per, Metallwissenschaft und Technik
Metall, Vol 15, 1961, pp 377-391. P911391567
AEC SIAC Tr-61

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sci - Nuclear Science
Jun 67

Guiding Values For the Machining of Some Cast
Alloys of Light Metals, by H. Bech.
GERMAN, per, Metallwissenschaft und Technik,
Vol. 5, 1962, pp 385-393
CSIRO/No.6949

Sci -
Aug 67

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On the Appearance of Plate-Like Segregation
Zones in Metal Alloys, by U. Heubner.
GERMAN, per, Metallwissenschaft und Technik,
Vol XVI, No 4, 1962, pp 403-407.
BISI 3698

Sci - M/M
Jul 64

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~~REX~~ ⁹Floniam, by J. Sagochen, 14 pp.

GERMAN, per. Metallwissenschaft und Technik.
Vol XVI, No 12, 1962, pp 1193-1195. 5215792

ADC-Tr-6021

Sci - Mat & Met

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Dec 63

The Effect of Corrosion Conditions on the
Stress Tear Corrosion Behavior of AlZnMgJ,
by W. Gruhl, FOR OFFICIAL USE ONLY
GERMAN, per, Metallwissenschaft und Technik,
Vol XVII, No 3, 1963, pp 197-201. B90022166
RSIC-555

Sci-Chem
Sept 66

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Impregnated Niobium-Tantalum Alloys, by
R. Kieffer, St. Mindisch, H. Nowotny.
GERMAN, per, Metall, und Technik, Vol 17, No 7,
Jul 1963, pp 669-677. 9231505
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Jul 66

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Thermodynamics of Alkali Metals Part I.
by W. Mialki, H. J. Freund.
GERMAN, per, Metallwiss Und Technik, Vol XVIII,
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Sci-Eng M/M

Aug 66

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Brazing and Welding of Beryllium, by H. Weik.
GERMAN, per, Metallwissenschaft und Technik, Vol XVIII,
No 3, 1964, pp 235-243.
NASA TT F-4021

Sci-Mar & Met
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Selection of Tool Steels for Hot Working, by
Klarding.

GERMAN, per, Metall Z Technik, Industrie und Handel,
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Co-op Tr Sch Tr 853

Sci - Engr
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(1330-4)

Some Economic and Organizational Aspects of
Iron Collection, by C. Ciocimarescu, 12 pp.

ROMANIA, per, Revolurgia, Vol I, No 11,
Bucharest, 1956, pp 977-981.

JPRS 1287-N

EAur - Romania
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Mar 59

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Sagra, Umberto.
REDUCTION OF IRON ORES WITH NATURAL GAS.
[1963] [32p. 6 refs.
Order from SLA \$3.60

63-16846

Trans. of reprint of *Memorie [Petrolio e Nuove Energie]*
(Italy) 1954, v. 8, no. 3, p. 13-25.

DESCRIPTORS: *Ores (Metal sources), *Iron,
Reduction (Chemistry), *Natural gas.

(Metallurgy--Ferrous Metals, TT, v. 10, no. 9)

63-16846

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Office of Technical Services

Gravity and Magnetic Survey of Central and
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ITALIAN, per, Metano, Anno Vol 8, No 12, Dec 1954,
pp 1-19.
ACIC TC-1058

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Dec 66

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Partial and Total Oxidation of Methane in Homogeneous and Heterogeneous Phases, Part I, by G. Salvi, A. Piura,.

ITALIAN, per, Metano, Vol XI, No 2, 1957, pp 59-70.

ATB 248-1J

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Nov 59

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Ecogenetic Lead Mining, by A. Bilart, 6 pp.

FRENCH, per, Metall. Vol XI, 1936, pp 31-37.

E.L.A. Tr 420/1956

Sci - Minerals/Metals, Chemistry

Jun 1956

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Protective Coatings for High-Melting Metals,
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FRENCH, per, Metaux, Vol XXVII, 1952, pp 312-
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AEC Tr 2838

SLA 60-18094

Sci - Minerals/Metals

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Mar 57/CT8

Phosphatization of Metals, by Jean Bary, 6 pp.

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Scientific - Min/Metals

May 56 CTS/DEX

IAC INTERNAL USE ONLY

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New Device for Thermal Differential Analysis,
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Sci - Physics
Sep 56 CTS

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Application of Radioactive Tracers to the Study
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FRENCH
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Sci - Physics

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SLA 57-3281

Sci

Aug 58

72,534

The Applications of Vacuum Techniques to Certain
Methods of Deposition and Fusion of Materials, by
R. P. Henry, 22 pp. UNCLASSIFIED

FRENCH, per, Metall. Jan 1956, pp 274-288.
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ACRIL 983

Sci - MIA/Met
Jan 59

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Exaggerated Grain Growth, by P. Coulomb.

FRENCH, ~~not~~ Metour, 31 Nov 1956,
pp 451-456.

Broken Hill Prop Co Ltd
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Sci - Biol
Dec 61

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Destructive Control of Metals, by Beaujard,
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Sci - Min/Met
Aug 48 58

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Brittle Fracture of Steel, by J. B. Lean,
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ACSIL Tr 1332

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Jan 64

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RAE 997

Sci - Min/Met

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Dec 62

Ultra-High Strength Steels Obtained by Structural
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Before Martensitic Tempering, by P. Desmarescaux,
FRENCH, per Metaux, Vol. 40, 1964, pp 110-125
GB 145

Sci -
Aug 67

339-410

Role of Niobium in the Improvement of the
Mechanical Properties of Weldable Construction
Steels, by Pierre Mandry. 49 pp.

FRENCH, per, Metals (Corros-Ind), Vol 43,
1908, pp 24-48.

AEC-ORNL-tr-2246

Sci-Mat

Oct 70

Herenguel, J. and Chaudron, G.
PURIFICATION OF MAGNESIUM AND CALCIUM BY
SUBLIMATION: THE CORROSION RESISTANCE OF
HIGH PURITY METALS. 5p (5 figs omitted).
Order from SLA \$1.10 TT-64-16723

Trans. of Metaux [Corrosion-Industries] (France)
1934, v. 9, p. 415-417.

(Metallurgy--Light Metals, TT, v. 12, no. 5)

TT-64-16723

I. Herenguel, J.
II. Chaudron, G.
III. Title: Corrosion...

Office of Technical Services

The Electrolytic Polishing of Several Alloys Containing
Nickel and Chromium, by P. Jacquet, 14 pp.

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SLA 57-867

Sci - Min/Mat

Feb 58

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Study of the Dry Corrosion of Metals by Means of
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FLUXE, per, Metals at Corrosion, Vol XVIII,
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Dept of Interior
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Sci - Chem

May 59

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Study of Hydrogen Embrittlement in Iron (Single
Crystal Iron Cold-Reduced and Tensioned), by Chaudron,
Moreau. UNCLASSIFIED

FRENCH, per, Met Corrosion, Vol XIX, Mar 1943,
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Co-op Tr Scheme
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Sci - Min/Met
Apr 58

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aluminum and Its Effects of the Nature of
Grain Boundaries, by Paul Lacoste, Nicolas
Yannakis, 4 pp.

FRENCH, per, Metaux & Corrosion, Vol XXII,
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AEC Tr 2404

Sci - Minerals/Metals, Chemistry

32,479

The Protection of Aluminum by Films of Dichromatic
Gelatin, by Jean Fruschi, 10 pp.

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S.L.A.

Scientific - Minerals/Metals

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A Study of the Measurement and Mechanism of
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FRENCH, Metaux et Corrosion, Vol XXV, 1948.

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Scientific - Chemistry

Oct 49 CTS (1/49)

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A Comparison of Microhardness Readings and Local
Spectrographic Studies of the Diffusion Zone, by
H. Buckle.

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*NTIS/NBS TT 71-53142

Available NBS Only

June 71

Wise, E. M.
PRECIOUS METALS IN INDUSTRY [Les Métaux
Précieux dans l'Industrie]. 12 July 50, 20p. (Iga.
tables 56 refs. omitted).
Order from SLA \$1.60

63-10043

Trans. of [Métaux (Corrosion-Industries)] (France)
1949 [v. 24] no. 284, p. 87-117.

DESCRIPTORS: Metals, *Gold, *Silver, *Platinum,
Industrial production, *Corrosion inhibition, Physical
properties, Safety devices, *Electrodeposition,
Electrolysis.

(Metallurgy, TT, v. 10, no. 1)

63-10043

I. Wise, E. M.

Office of Technical Services

Tungsten, by Jean Challancomet, 34 pp.

FRENCH, par, Metaux et Corrosion, No 287-288,
Jul/Aug 1949, pp 163-76.

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S.L.A. Tr 2076/1956

Sci - Minerals/Metals
Oct 56 CTS

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The Diffusion of Gas in Metals in the Case of
the Iron-Hydrogen System, by P. Bastien. UNCL

FRENCH, per, Metaux Corrosion Ind, No 302, Oct
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British Iron and Steel Ind
(no number given)

Phys;
Sci - Min/Mat
Sep 59

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Diffusion and the Interaction of Impurities and Point
Defects and Structure in Metals, by C. Crussard.
FRENCH, per, Metaux et Corrosion, No 25, 1950, pp 203-226.
*NTIS/NBS TT 71-53089
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Jan 71

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P. Bastien.

FRENCH, per, Metaux et Corrosion, Vol 25, 1950, pp 248-261.

*NTIS/NBS TT 71-53090

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